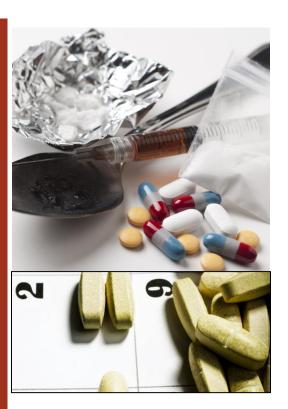
The Tragic Impact and Death Count Due to Prescription Drug Abuse: Statistics and Analysis, Past and Present

Daniel M. Christy, MPA, CPRP
Director, WV Health Statistics Center
Bureau for Public Health
Department of Health and Human
Resources

Built upon and modified from recent presentations by Al Mock, MD, MS, DABP, FCAP, FNAME, WV Chief Medical Examiner, and State Registrar of Vital Events Gary Thomposon





Polypharmacy



Most Drug Overdose Deaths Involve Multiple Substances

rplications that caused the death. Do not enter the mode of dying, such as cards only one cause on each line.	sac or respiratory	Approximate Interval Between Onset and Death
Combined codeine, alprazolam, fluove		Mins hrs.
DUE TO LOR AS A CONSEQUENCE OF Chlorphening	amine, lamotrigine & gabapenti	in intoxication
omplications that caused the death. Do not enter the mode of dying, such as a slionly one cause on each line.	cardiac or respiratory	Approximate Intelval Between Orset and Death
Combined oxycodone, hydrocodone, ca	italopram, diazepam, clonazep	amu Mins hrs.
alprazolan, dipherhydramine & d	extramethorphan intoxication	
complications that caused the death. Do not enter the mode of dying, such as ist only one cause on each line.	cardiac or respiratory	l Approximate Intelval (Between Onset and (Death
Oxymorphone, oxycodone, hydrocodon	e, gabapentin & alprazolam	Mins hrs.
DUE TO (OR AS A CONSEQUENCE OF)	introxication	

Matrix of Roles and Responsibilities With Federal Government and National Associations



Centers for Disease Control & Prevention:

Behavioral Risk Factor Surveillance System

National Center for Health Statistics:

Enumerator at birth Death reporting

National Institute for Occupational Safety and Health:

Worker and workplace deaths

Association of State and Territorial Health Officials:

National Association of Health Data Organizations:

National Association of Public Health Statistics and Information Systems: Health Statistics Center

Social Security Administration:

Birth data and assignment of social security numbers

Death data to clear social security files

Department of Justice Federal Bureau of Investigation:

Birth and death records for known and/or suspected criminals

Occasional witness protection cases Other requested data

United States Attorney's Office:

Data for death cases such as possible drug overdoses and/or medical errors

National Alzheimer's Association:

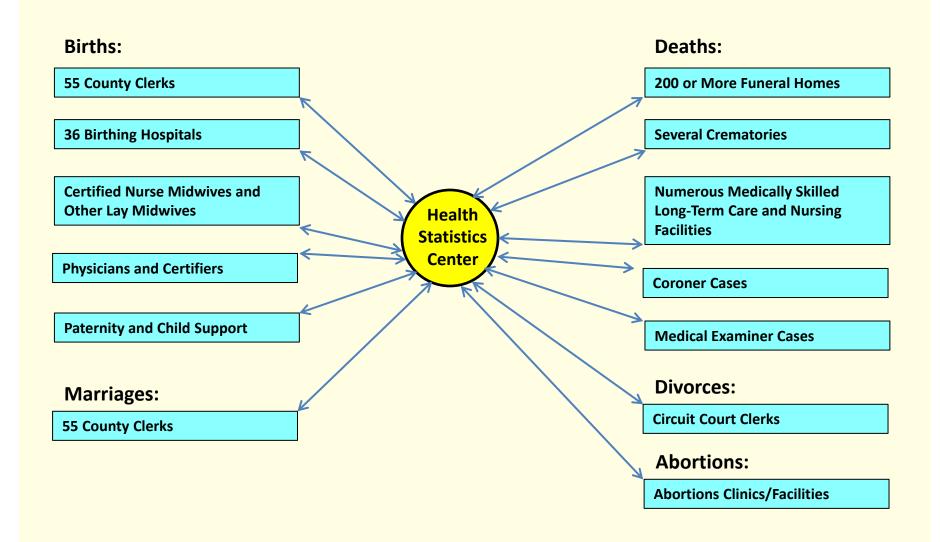
Data and surveys on dementia and caregivers

Passports & DMV:

Verifies identity before issuance

Matrix of Roles and Responsibilities with Vital Registration





Matrix of Roles and Responsibilities With Other Public Offices, DHHR Bureaus and Major Partners



Commissioner

Healthy People 2000, 2010, & 2020:

Data validation and assessment

Project Manager:

Catalog of Public Health research, internship, assistance, and/or dissertation projects with WVU and all bureau offices and commissioners.

Offices

Office of Maternal, Child and Family Health:

Pregnancy Risk Survey - Samples new mothers Data for Birth Defects Registry Infant and Maternal Death Data Injury data

Medical Examiner:

Data for Child and Maternal Fatality Review Drug Overdose Mortality Data

Office of Community Health Systems and Health Promotion:

Provide seven Chronic Disease epidemiologists to support Asthma, Diabetes, Cardiovascular, Cancer, and Obesity prevention and other programs

Office of Epidemiology and Prevention Services:

Influenza, Infectious, and other relevant diseases Birth data for Immunization Registry Mortality data for Cancer Registry

Governor

Client Services Assistant:

Expedite any action such as requesting death certificate for families of storm victims (Hurricane Sandy for example), pine disasters (Upper Big Branch), etc.

Bureaus/Other Partners

Marriage Counseling website

Medical Services:

Memorandum of Understanding Mortality Data

Behavioral Health:

Member of state epidemiological outcome work group SYNAR – Data survey and research support for tobacco coverage and statistical studies BRFSS and mortality data for state and county profiles

Children, Families and Child Support:

Access to birth records via IPACT system to ID children for their protection Birth data match to deferal Real ID Act implementation

Department of Education:

Youth Tobacco Survey Youth Risk Behavior Survey

Health Care Authority:

Birth data and Hospital Discharge data

WV University System:

WV Perinatal Partnership:

Birth data and Reducing late pre-term delivery initiative

WV State Police:

Missing Children Registry

Health Statistics

Statistics Center

Provide mortality data to PEIA and Consolidated

Other Agencies:

Public Retirement Board

WV Health Statistics



West Virginia is ranked among the bottom in state health rankings. Statistics from the DHHR Bureau for Public Health's Health Statistics Center show the following for morbidity:

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50th Fair/Poor Health
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50th Heart Disease

50th Heart Attack

50th Smoking

50th Smokeless Tobacco Use

50th Obesity

50th Hypertension

50th Arthritis

50th Disability

49th Chronic Obstructive Pulmonary Disease

45th Kidney Disease

44th No Physical Activity

44th Stroke

42nd Depression

41st Cancer

3rd Binge Drinking

2nd Heavy Drinking

- 2013 Behavioral Risk Factor Surveillance System

Overdoses in 2012 Vs. Auto Travel & Vietnam



In 2012, 33,175 (79.9%) of the 41,502 drug overdose deaths in the United States were unintentional, 5,465 (13.2%) were of suicidal intent, 80 (0.2%) were homicides, and 2,782 (6.7%) were of undetermined intent.

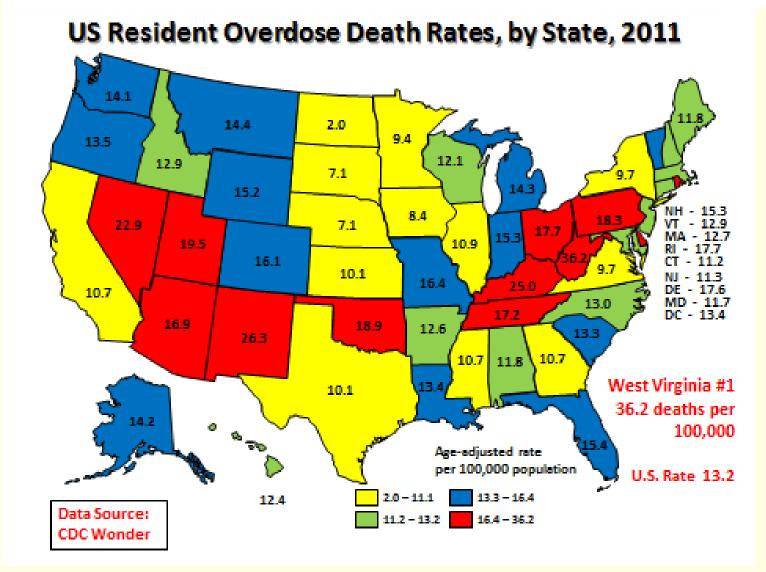
58,220 U.S. service members died in the Vietnam conflict. This was during the period 1955 – 1975, with most of the deaths occurring between 1961 and 1973.

Thus, about every two years we are losing more Americans to accidental drug overdose deaths than we did in the 12 years of major fighting In the Vietnam war.

Also, US Auto travel related deaths in 2012 were 33, 561 just slightly higher than accidental overdose deaths.

Drug Overdose Rates by State

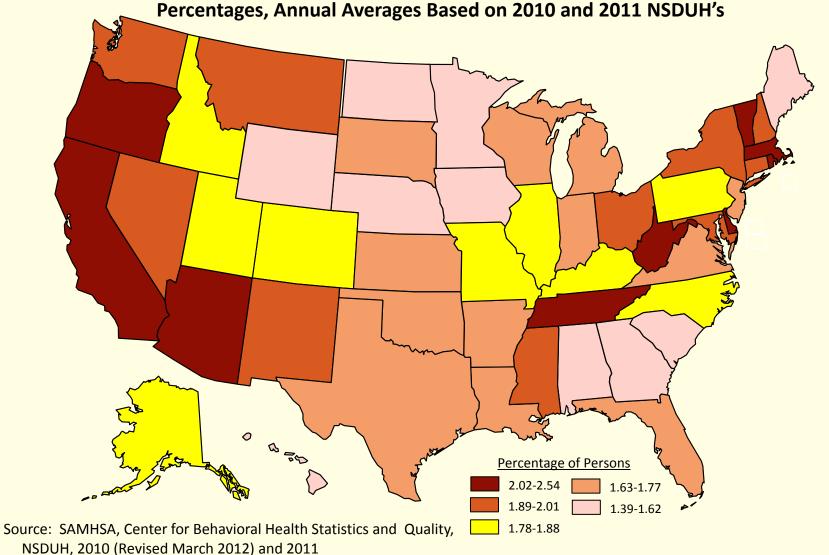




Illicit Drug Dependence by State

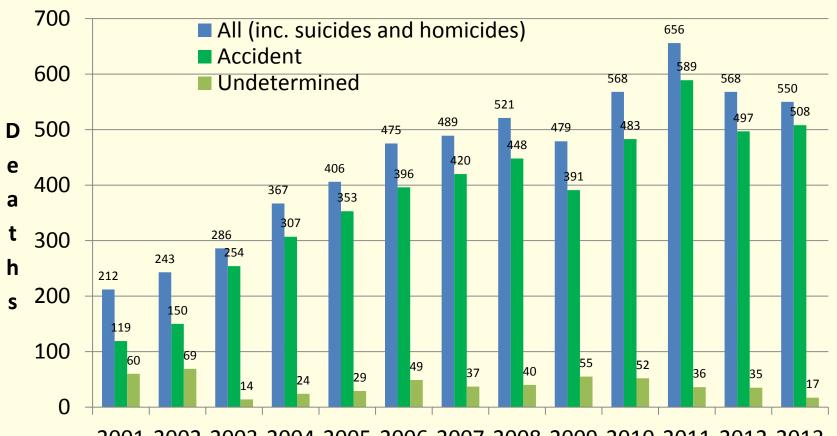


Illicit Drug Dependence in the Past Year Among Persons Aged 12 or Older by State





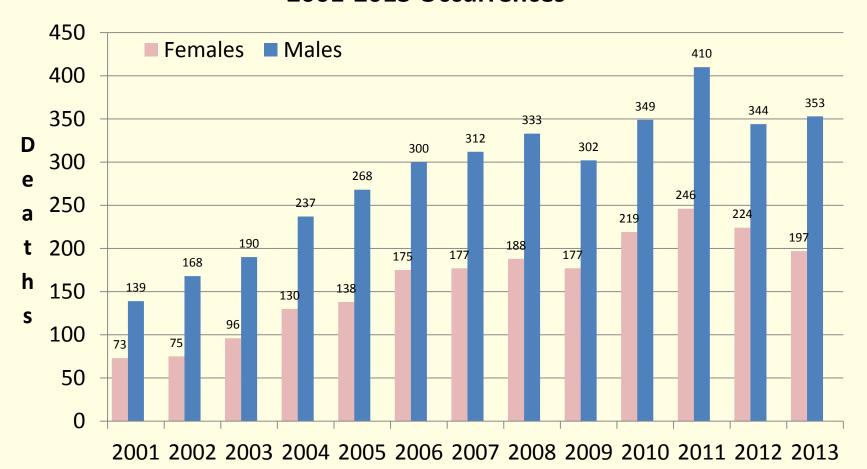
WV Drug Overdose Deaths by Year & Manner 2001-2013 Occurrences



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013



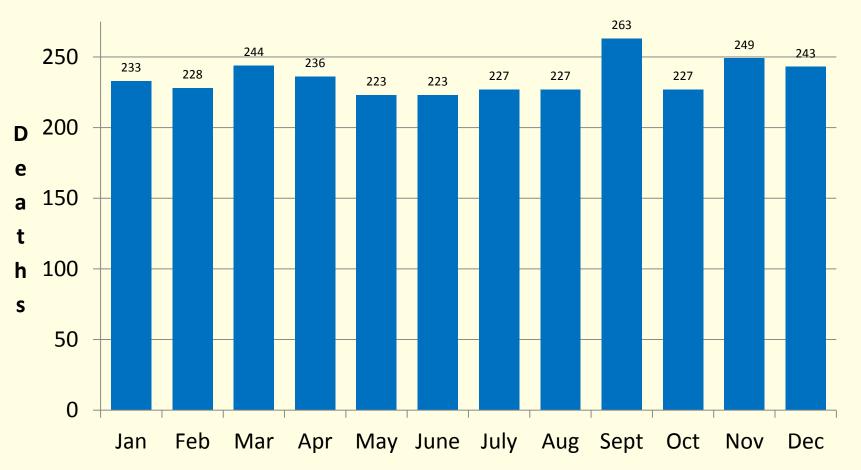
WV Drug Overdose Deaths by Year & Sex 2001-2013 Occurrences



Average Drug Overdose



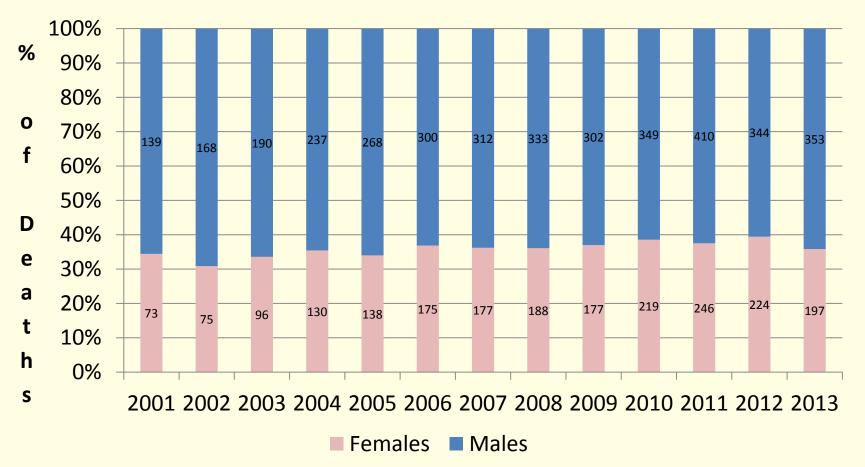
WV Average Drug Overdose Deaths by Month 2009-2013 Occurrences



Data Source: WV Health Statistics Center, Vital Statistics System



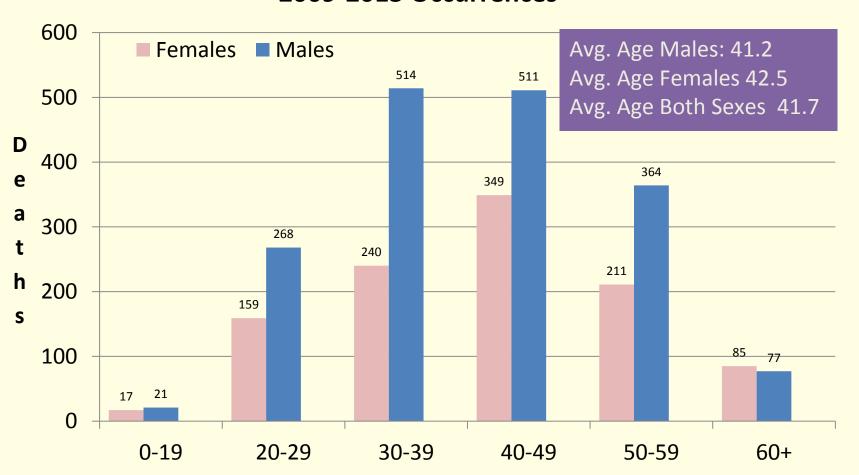
WV Drug Overdose Deaths by Year & Sex as a % of Total 2001-2013 Occurrences



Demographic Analysis



WV Drug Overdose Deaths by Age-Group & Sex 2009-2013 Occurrences



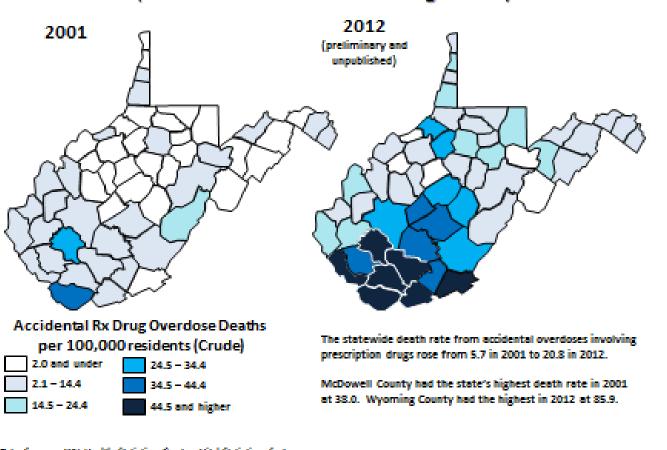
Data Source: WV Health Statistics Center, Vital Statistics System

* - 2013 Preliminary

County Level Overdose Death Rates 2001 & 2012



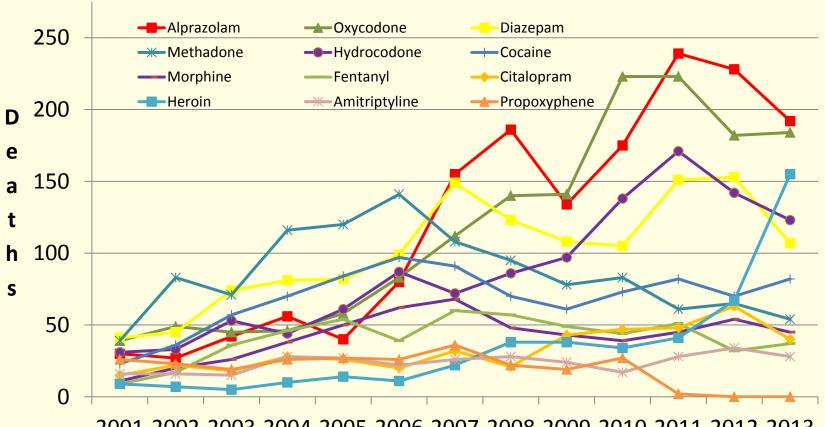
Accidental Rx Drug Overdose Death Rates Reach New Highs (WV resident deaths occurring in WV)



Data Source: WV Health Statistics Center: Vital Statistics System



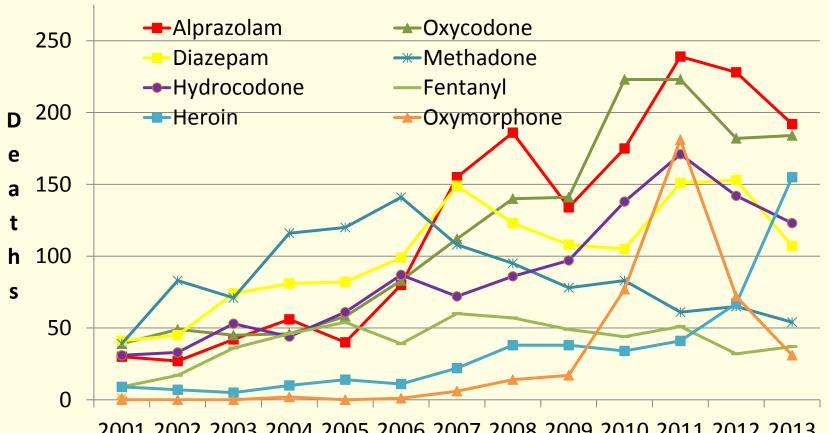
WV Drug Overdose Deaths for Selected Drugs 2001-2013 Occurrences by Year



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013



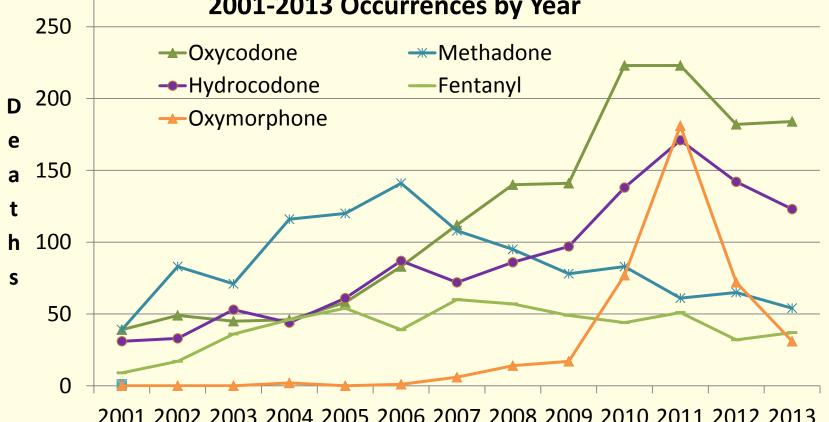
WV Drug Overdose Deaths by Selected Drug Involved 2001-2013 Occurrences by Year



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013



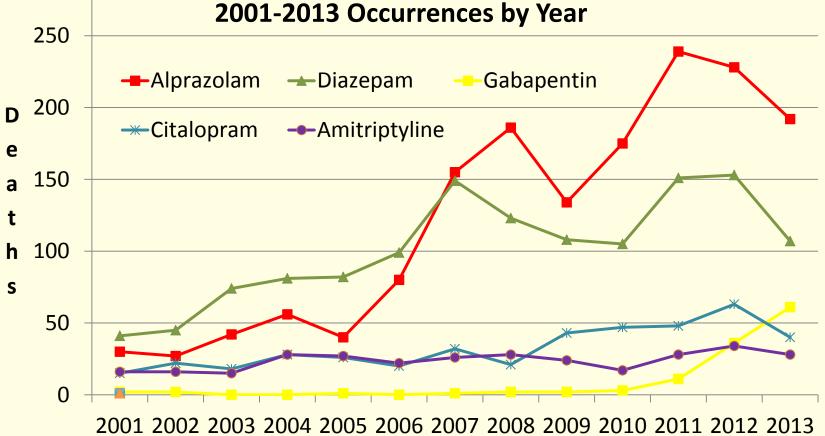
WV Drug Overdose Deaths for Selected **Prescription Opiates (Pharmaceuticals)** 2001-2013 Occurrences by Year



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

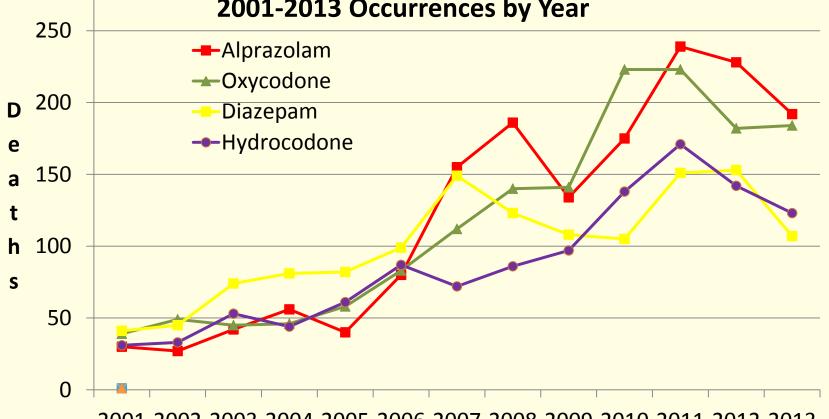


WV Drug Overdose Deaths for Selected Prescription Non-Opiate Drugs (Pharmaceuticals)



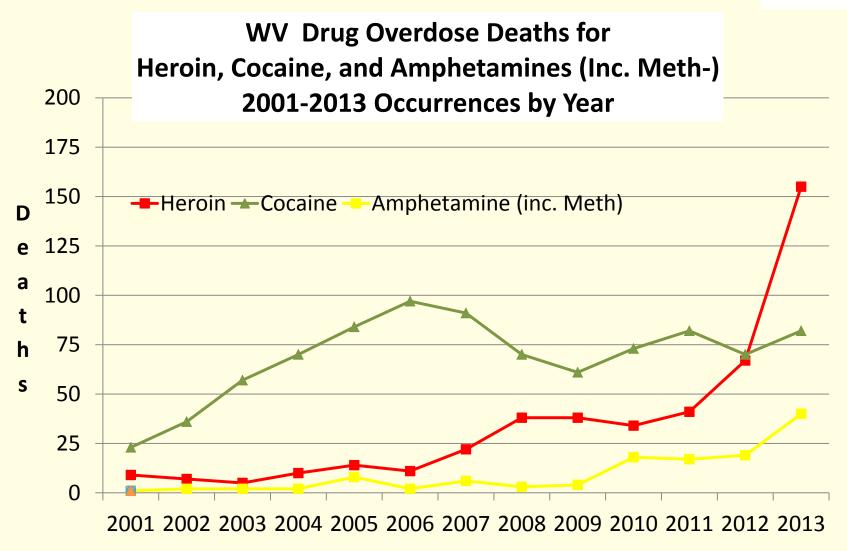


WV Drug Overdose Deaths for Selected Opiates and Benzodiazepines 2001-2013 Occurrences by Year



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013





YPLL Before Age 65 – All Drug Overdoses



Years of Potential Life Lost Before Age 65 2001-2013 All WV Drug Overdose Occurrences

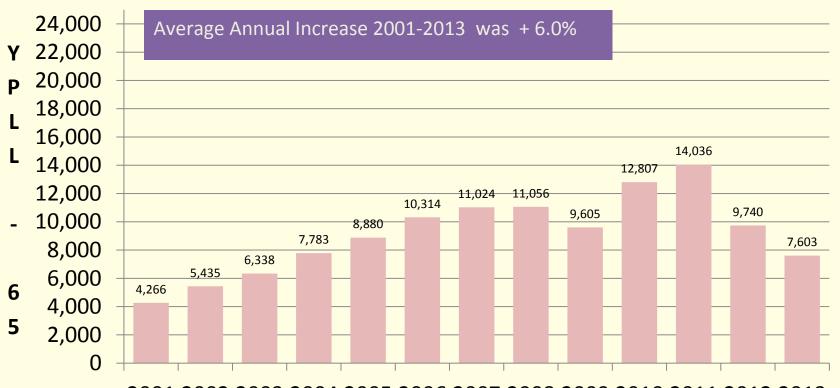


2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

YPLL Before Age 65 – Prescription Drug Overdoses



Years of Potential Life Lost Before Age 65 2001-2013 WV Drug Overdose Occurrences Where at Least One or More Prescription Drugs Involved



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

YPLL Before Age 75 – All Drug Overdoses



Years of Potential Life Lost Before Age 75 2001-2013 All WV Drug Overdose Occurrences



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

YPLL Before Age 75 – Prescription Drug Overdoses



Years of Potential Life Lost Before Age 75 2001-2013 WV Drug Overdose Occurrences Where at Least One or More Prescription Drugs Involved



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013



AS OF AUGUST 21, 2014 FILED DEATH CERTIFICATES REFLECT:

258 TOTAL OVERDOSE DEATHS OF WHICH:

79 ARE OXYCODONE RELATED

58 ARE HYDROCODONE RELATED

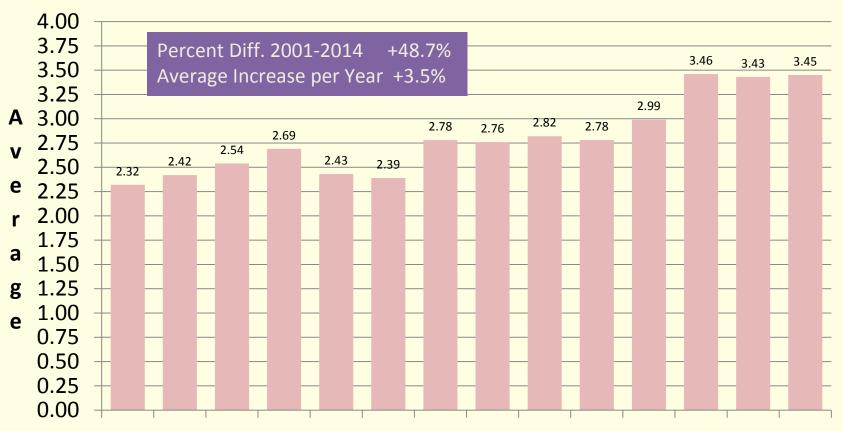
57 ARE HEROIN RELATED

THESE DATA ARE VERY INCOMPLETE, MEANING NO CONCLUSIONS CAN BE MADE ABOUT WHAT THE FINAL OVERDOSE TOLL MAY BE FOR 2014. BASED ON RECENT TRENDS AT LEAST TEN WV RESIDENTS WILL DIE FROM OVERDOSE THIS WEEK.

Number of Drugs Involved



Average Number of Drugs Involved Per Fatal Overdose 2001-2014 Occurrences

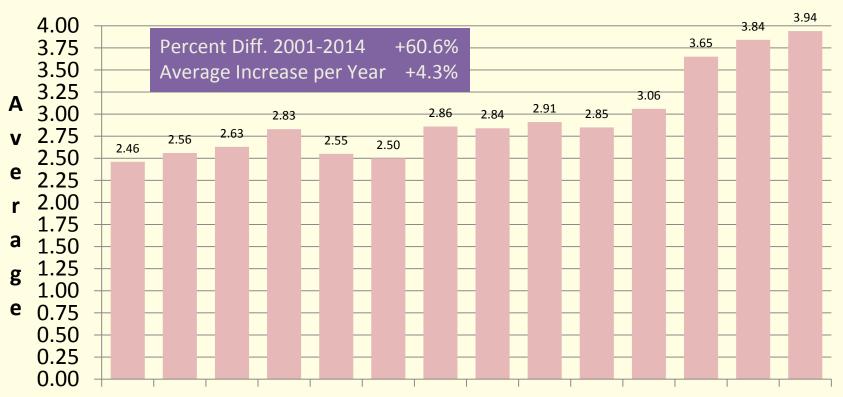


2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014

Number of Prescription Drugs Involved



Average Number of Drugs Per Fatal Overdose Where One or More Prescription Drugs Were Involved 2001-2014 Occurrences



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014

Data Source: WV Health Statistics Center, Vital Statistics System 2013 Preliminary, 2014 Cumulative and Unedited

Contact Information



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HSC Publications

http://www.wvdhhr.org/bph/hsc/statserv/publist.asp

Behavioral Health and HSC County Data Profiles

http://www.dhhr.wv.gov/bhhf/Sections/programs/ProgramsPartnerships/AlcoholismandDrugAbuse/Research/Pages/DataResearch.aspx

Thanks for your time. Email me for links and presentation